Answer to Practice Problem J in page 327

Answers to Practice Problem J

1. 4.01 g CO_2

Homework —————— GENERAL

Additional Practice Racecars often burn ethanol, C_2H_5OH, for added performance. The products are carbon dioxide and water. The density of ethanol is 0.816 g/mL, the density of CO_2 is 1.997 g/L, and the density of O_2 is 1.331 g/L.

1. If the car holds 1.00×10^5 mL of ethanol and all of the carbon in it forms carbon dioxide, what volume of carbon dioxide is added to the air? Ans. 7.81×10^4 L CO_2

2. What volume of oxygen is needed to react with 78.3 L of ethanol? Ans. 1.00×10^5 L O_2

LS Logical